INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/13055

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ B01D53/44, C02F1/78, B01F5/00			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ B01D5/00, C02F1/00			
Documentation searched other than minimum documentation to the extent that such documents are included in t Jitsuyo Shinan Koho 1926—1996 Toroku Jitsuyo Shinan Koho Kokai Jitsuyo Shinan Koho 1971—2003 Jitsuyo Shinan Toroku Koho			o 1994–2003 o 1996–2003
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*			Relevant to claim No.
. Ү	US 5928509 A (HIKOROKU SUGIO 27 July, 1999 (27.07.99), Full text; Fig. 1 & JP 10-085723 A	JRA),	1-6
X Y	US 5779361 A (SHINYOU TECHNOLOGIES, INC.), 14 July, 1998 (14.07.98), Full text; Figs. 1 to 9 & EP 829305 A2		
Furthe	er documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 03 December, 2003 (03.12.03) "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document of particular relevance; the claimed invention considered to involve an inventive step when the document of particular relevance; the claimed invention considered to involve an inventive step when the document of particular relevance; the claimed invention considered to involve an inventive step when the document of particular relevance; the claimed invention considered to involve an inventive step when the document of particular relevance; the claimed invention considered to involve an inventive step when the document of particular relevance; the claimed invention considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention considered to involve an inventive step when the document of particular relevance; the claimed inventi		he application but cited to certying the invention calaimed invention cannot be red to involve an inventive claimed invention cannot be when the document is documents, such skilled in the art family	
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